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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/917,698

07/31/2001

Dong-Sun Kim

42016

9912

7590

11/03/2004

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Roylance, Abrams, Berdo & Goodman, L.L.P.

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EXAMINER

MUNOZ, GUILLERMO

ART UNIT

PAPER NUMBER

2637

DATE MAILED: 11/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/917,698

Applicant(s)

KIM ET AL.

Examiner

Guillermo Munoz

Art Unit

2637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 July 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on July 28, 2000. It is noted, however, that applicant has not filed a certified copy of the P2000-229639 application as required by 35 U.S.C. 119(b).

Specification

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract of the disclosure is objected to because the length exceeds 150 words.

Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bertsch in view of Vander Mey et al.

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Regarding claim 1; Bertsch teach an Appliance Managing System which teach almost all the claimed subject matter “main control unit...register unit...control logic...reference data...and a data processing unit” in claim 1 as follows. Bertsch teach an interface unit is able to adapt communication data rates and valid pulse width thresholds, note Col.5, lines 3-9 and 20-24. Bertsch’s means for interfacing provides operating parameters to the digital data signal processor, the parameters being selectively controlled according to the signals stored in the parameter input register, note Col.10 lines 51-54. Bertsch teach that the media control element operates in accordance of the parameters, note Col.11, lines 35-37. Bertsch illustrate control logic for selecting the parameters output from register 360, note elements 322 and 324 of figure 5. However, Bertsch does not explicitly state the parameter including an offset value and error rate values.

Vander Mey et al. teach a power line transmission system using spread spectrum chirps which use an anticipated time offset error at the receive to implement a correlation window with the chirp pattern, thereby, allowing the receiver to track according to the design error tolerances, note Col. 6 lines 59-65.

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify Bertsch’s parameter storage unit with Vander Mey et al.’s anticipated time offset and design error tolerances, since Bertsch. suggest in Col. 5, lines 25-30, the selectable parameters include parameters that accommodate variations of circuit delays.

Regarding claim 3, see claim 1.

Claims 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bertsch in view of Vander Mey et al. and Raphaeli.

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Regarding claim 2; as applied to claim 1 above, Vander Mey et al. teach a Spread Spectrum Chirp receiver, however, Vander Mey et al. do not teach the first and second compressor.

Raphaeli teach a similar Spread Spectrum Chirp receiver having all the claimed subject matter of claim 2 as follows. Raphaeli teach a chirp signal receiver in figure 5A and 5B comprising: a data shift unit (element 36), a comparing unit (element 38), a first compressing unit (element 42), a second compressing unit (element 44), a summing unit (element 54), and a determining unit (element 46).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify the Vander Mey et al.'s Spread Spectrum Chirp Receiver with Raphaeli's teaching of differential code shift keying, since Raphaeli suggest in Col.2 lines 1-3, that the results of this modification would result in an increase in bits per symbol and improve system performance.

Regarding claim 4, see claim 2.

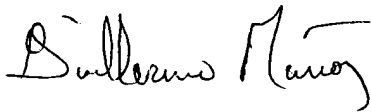
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guillermo Munoz whose telephone number is 571-272-3045. The examiner can normally be reached on Monday-Friday 8:30a.m-4:30p.m..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



GM
October 28, 2004



JEAN B. CORRIELUS
PRIMARY EXAMINER

11-1-04